

AMENDMENTS TO THE CLAIMS

These claims replace all prior versions and listings of claims in the above-referenced application. The language being added is underlined (“ ”) and the language being deleted contains strikethrough (“”).

- 1 1. (Currently Amended) A system for screening a real-time transport
2 protocol route advertisement communicated between adjacent Internet telephony
3 administrative domains prior to comparing said an advertised route to a ~~local~~ policy,
4 comprising:
5 a ~~transceiver~~;
6 ~~software stored therein defining functions to be performed by said system; and~~
7 ~~a processor configured by said software to perform the steps of,~~
8 a database server configured to store at least one policy, the at least one policy
9 comprising attributes associated with one or more routes; and
10 a plurality of session routers in communication with the database server and
11 configured to determining if determine a source of a real-time transport protocol route
12 information advertisement received by said transceiver is from an external source or an
13 internal source;
14 if when it is determined that a real-time transport protocol route
15 advertisement received at a respective session router is from an Internet telephony
16 administrative domain managed by another administrative entity than the administrative
17 entity that manages the respective session router said route information is from an
18 external source, the session router is configured to perform performing a first internal
19 destination screen of said route ~~information advertisement~~, wherein a destination address
20 defined by said received route ~~information advertisement~~ is compared to a ~~local~~
21 destination address ~~defined by said first internal screen~~, and
22 if when it is determined that a real-time transport protocol route
23 advertisement received at a respective session router is from the administrative entity that
24 manages the respective session router said route information is from an internal source,
25 the session router is configured to perform performing a second internal an origin screen
26 of said route information, wherein an origin address defined by said received route
27 ~~information advertisement~~ is compared to a ~~local~~ an origin address defined by said
28 second internal screen.

1 2. (Currently Amended) The system of claim 1, wherein ~~said processor is~~
2 ~~further configured by said software to perform the step of discarding the respective~~
3 ~~session router discards~~ said received route ~~information advertisement~~, if ~~when~~ said
4 destination address defined by said received route ~~information advertisement~~ does not
5 match said ~~local~~ destination address defined by said ~~first internal~~ destination screen.

1 3. (Currently Amended) The system of claim 1, wherein ~~said processor is~~
2 ~~further configured by said software to perform the step of, determining whether~~
3 ~~discarding the respective session router determines which of~~ said destination address
4 defined by said received route ~~information advertisement~~ ~~or and~~ said ~~local~~ destination
5 address defined by said ~~first internal~~ screen is a ~~more specific destination address~~
6 contains the greatest number of characters, if ~~when~~ a portion of said destination address
7 defined by said received route ~~information advertisement~~ matches a portion of said ~~local~~
8 destination address defined by said ~~first internal~~ destination screen.

1 4. (Currently Amended) The system of claim 3, wherein ~~said processor is~~
2 ~~further configured by said memory to perform the step of, keeping the respective session~~
3 ~~router retains~~ said ~~local~~ destination address defined by said ~~first internal~~ destination
4 screen and ~~discarding discards~~ said destination address defined by said received route
5 ~~information advertisement~~, if ~~when~~ said ~~local~~ destination address defined by said ~~first~~
6 ~~internal~~ destination screen is a ~~more specific destination address~~ contains a greater
7 number of characters than said destination address defined by said received route
8 ~~information advertisement~~.

1 5. (Currently Amended) The system of claim 3, wherein ~~said processor is~~
2 ~~further configured by said software to perform the step of, storing the respective session~~
3 ~~router stores~~ said destination address defined by said received route ~~information~~
4 advertisement for future comparison to a ~~local~~ the at least one policy, if ~~when~~ said ~~local~~
5 destination address defined by said ~~first internal~~ destination screen is a ~~less specific~~
6 ~~destination address~~ contains a lesser number of characters than said destination address
7 defined by said received route ~~information~~ advertisement.

1 6. (Currently Amended) The system of claim 1, wherein the format of said
2 destination address ~~is conformed~~ conforms to at least one of E.164 style addresses,
3 Internet style addresses, SIP session initiation protocol telephone addresses ~~or and~~ non-
4 SIP session initiation protocol telephone addresses.

1 7. (Currently Amended) The system of claim 1, wherein ~~said processor is~~
2 ~~further configured by said software to perform the step of, storing the respective session~~
3 router stores said received route ~~information~~ advertisement for future comparison to a
4 ~~local~~ policy, if when said received route ~~information~~ advertisement does not have said
5 origin address.

1 8. (Currently Amended) The system of claim 1, wherein ~~said processor is~~
2 ~~further configured by said software to perform the step of, discarding the respective~~
3 session router discards said received route ~~information~~ advertisement if when said origin
4 address defined by said received route ~~information~~ advertisement does not match said
5 ~~local~~ origin address defined by said ~~first internal~~ destination screen.

1 9. (Currently Amended) The system of claim 1, wherein ~~said processor is~~
2 ~~further configured by said software to perform the step of, determining whether the~~
3 respective session router determines which of said origin address defined by said
4 received route ~~information~~ advertisement ~~or and~~ said ~~local~~ origin address defined by said
5 ~~first internal~~ destination screen is a more specific origin address contains the greatest
6 number of characters, if when a portion of said origin address defined by said received
7 route ~~information~~ advertisement matches a portion of said ~~local~~ origin address defined by
8 said ~~first internal~~ destination screen.

1 10. (Currently Amended) The system of claim 9, wherein ~~said processor is~~
2 ~~further configured by said software to perform the step of, keeping the respective session~~
3 router retains said ~~local~~ origin address defined by said ~~first internal~~ destination screen and
4 discarding said origin address defined by said received route ~~information~~ advertisement,
5 if when said ~~local~~ origin address defined by said ~~first internal~~ destination screen is a more
6 specific origin address contains a greatest number of characters than said origin address
7 defined by said received route ~~information~~ advertisement.

1 11. (Currently Amended) The system of claim 9, wherein ~~said processor is~~
2 ~~further configured by said software to perform the step of, storing the respective session~~
3 ~~router retains~~ said origin address defined by said received route ~~information~~
4 ~~advertisement~~ for future comparison to a ~~local~~ policy, if ~~when~~ said ~~local~~ origin address
5 defined by said ~~first internal destination~~ screen ~~is a less specific origin address contains a~~
6 ~~lesser number of characters~~ than said origin address defined by said received route
7 ~~information advertisement~~.

1 12. (Currently Amended) The system of claim 1, wherein ~~said processor is~~
2 ~~further configured by said software to perform the step of, reading the respective session~~
3 ~~router reads~~ a received carrier attribute provided by said received route ~~information~~
4 ~~advertisement~~, wherein said received carrier attribute describes a source of said received
5 route ~~information advertisement~~, prior to comparing said received route ~~information~~
6 ~~advertisement~~ to said ~~local~~ at least one policy.

1 13. (Currently Amended) The system of claim 12, wherein ~~said processor is~~
2 ~~further configured by said software to perform the step of, discarding the respective~~
3 ~~session router discards~~ said received route ~~information advertisement~~ prior to comparing
4 said received route ~~information advertisement~~ to said ~~local~~ at least one policy, if ~~when~~ a
5 received carrier name, defined by said received carrier attribute, does not match a ~~local~~
6 carrier name.

1 14. (Currently Amended) The system of claim 12, wherein ~~said processor is~~
2 ~~further configured by said software to perform the step of, discarding the respective~~
3 ~~session router discards~~ said received route ~~information advertisement~~ prior to comparing
4 said received route ~~information advertisement~~ to said ~~local~~ at least one policy, if ~~when~~ a
5 received carrier days of availability, defined by said received carrier attribute, does not
6 match a ~~local~~ carrier days of availability.

1 15. (Currently Amended) The system of claim 12, wherein ~~said processor is~~
2 ~~further configured by said software to perform the step of, discarding the respective~~
3 ~~session router discards~~ said received route ~~information advertisement~~ prior to comparing
4 said received route ~~information advertisement~~ to said ~~local~~ at least one policy, if when a
5 received carrier hours of availability, defined by said received carrier attribute, does not
6 match a ~~local~~ carrier hours of availability.

1 16. (Currently Amended) The system of claim 12, wherein ~~said processor is~~
2 ~~further configured by said software to perform the step of, discarding the respective~~
3 ~~session router discards~~ said received route ~~information advertisement~~ prior to comparing
4 said received route ~~information advertisement~~ to said ~~local~~ at least one policy, if when a
5 received carrier time of availability, defined by said received carrier attribute, does not
6 match a ~~local~~ carrier time of availability.

1 17. (Currently Amended) The system of claim 12, wherein ~~said processor is~~
2 ~~further configured by said software to perform the step of, discarding the respective~~
3 ~~session router discards~~ said received route ~~information advertisement~~ prior to comparing
4 said received route ~~information advertisement~~ to said ~~local~~ at least one policy, if when a
5 received carrier cost, defined by said received carrier attribute, does not match a ~~local~~
6 carrier cost.

1 18. (Currently Amended) The system of claim 1, wherein the format of said
2 origin address ~~is conformed~~ conforms to at least one of E.164 style addresses, Internet
3 style addresses, ~~SIP~~ session initiation protocol telephone addresses, ~~or~~ and non-SIP
4 session initiation protocol telephone addresses.

1 19. (Currently Amended) The system of claim 1, wherein said route
2 ~~information advertisement~~ is provided within a telephony routing over Internet protocol
3 (~~TRIP~~) update message.

1 20. (Currently Amended) A method of screening a real-time transport
2 protocol route advertisement prior to comparing said route advertisement to a ~~local~~
3 policy, comprising the steps of:
4 receiving ~~a~~ route ~~information~~ advertisement describing said ~~a~~ route from a first
5 endpoint to a second endpoint at a session router;
6 determining if when said route ~~information~~ advertisement is received from an
7 ~~external source~~ an Internet telephony administrative domain managed by another
8 administrative entity than the administrative entity that manages the session router ~~or an~~
9 ~~internal source~~;
10 if when said route ~~information~~ advertisement is from an Internet telephony
11 administrative domain managed by another administrative entity ~~external source~~,
12 performing a ~~first internal~~ destination screen of said route ~~information~~ advertisement,
13 wherein a destination address defined by said received route ~~information~~ advertisement is
14 compared to a ~~local~~ destination address defined by said ~~first internal~~ destination screen;
15 and
16 if when said route ~~information~~ advertisement is from the administrative entity that
17 manages the session router ~~an internal source~~, performing a ~~second internal~~ an origin
18 screen of said route ~~information~~ advertisement, wherein an origin address defined by said
19 received route ~~information~~ advertisement is compared to a ~~local~~ an origin address defined
20 by said ~~second internal~~ origin screen.

1 21. (Currently Amended) The method of claim 20, wherein said step of
2 comparing said destination address defined by said received route ~~information~~
3 advertisement to said ~~local~~ destination address defined by said ~~first internal~~ destination
4 screen further comprises the step of:
5 if when said destination address defined by said received route ~~information~~
6 advertisement does not match said ~~local~~ destination address defined by said ~~first internal~~
7 destination screen, discarding said received route ~~information~~ advertisement.

1 22. (Currently Amended) The method of claim 20, wherein said step of
2 comparing said destination address defined by said received route ~~information~~
3 ~~advertisement~~ to said ~~local~~ destination address defined by said ~~first-internal~~ destination
4 screen, further comprises the steps of:
5 if when a portion of said destination address defined by said received route
6 ~~information~~ ~~advertisement~~ matches a portion of said ~~local~~ destination address defined by
7 said ~~first-internal~~ destination screen, determining ~~whether~~ which of said destination
8 address defined by said received route ~~information~~ ~~advertisement~~ ~~or~~ and said ~~local~~
9 destination address defined by said ~~first-internal~~ destination screen ~~is a more specific~~
10 ~~destination address~~ contains the greatest number of characters.

1 23. (Currently Amended) The method of claim 22, further comprising the
2 step of:
3 if when said ~~local~~ destination address defined by said ~~first-internal~~ destination
4 screen ~~is a more specific destination address~~ contains a greater number of characters than
5 said destination address defined by said received route ~~information~~ ~~advertisement~~,
6 keeping said ~~local~~ destination address defined by said ~~first-internal~~ destination screen and
7 discarding said destination address defined by said received route ~~information~~
8 ~~advertisement~~.

1 24. (Currently Amended) The method of claim 22, further comprising the
2 step of:
3 if when said ~~local~~ destination address defined by said ~~first-internal~~ destination
4 screen ~~is a less specific destination address~~ contains a lesser number of characters than
5 said destination address defined by said received route ~~information~~ ~~advertisement~~, storing
6 said destination address defined by said received route ~~information~~ ~~advertisement~~ for
7 future comparison to a ~~local~~ policy.

1 25. (Currently Amended) The method of claim 20, wherein the format of said
2 destination address ~~is conformed~~ conforms to at least one of E.164 style addresses,
3 Internet style addresses, SIP session initiation protocol telephone addresses, ~~or~~ and non-
4 SIP session initiation protocol telephone addresses.

1 26. (Currently Amended) The method of claim 20, further comprising the
2 step of:
3 if when said received route ~~information~~ advertisement does not have said origin
4 address, storing said received route ~~information~~ advertisement for future comparison to a
5 ~~local~~ policy.

1 27. (Currently Amended) The method of claim 20, wherein said step of
2 comparing said origin address defined by said received route ~~information~~ advertisement
3 to said ~~local~~ origin address defined by said ~~first-internal~~ destination screen, further
4 comprises the step of:
5 if when said origin address defined by said received route ~~information~~
6 advertisement does not match said ~~local~~ origin address defined by said ~~first-internal~~
7 destination screen, discarding said received route ~~information~~ advertisement.

1 28. (Currently Amended) The method of claim 20, wherein said step of
2 comparing said origin address defined by said received route ~~information~~ advertisement
3 to said ~~local~~ origin address defined by said ~~first-internal~~ destination screen, further
4 comprises the steps of:
5 if when a portion of said origin address defined by said received route
6 ~~information~~ advertisement matches a portion of said ~~local~~ origin address defined by said
7 ~~first-internal~~ destination screen, determining ~~whether~~ which of said origin address
8 defined by said received route ~~information~~ advertisement ~~or and~~ said ~~local~~ origin address
9 defined by said ~~first-internal~~ destination screen ~~is a more specific origin address~~ contains
10 the greater number of characters.

1 29. (Currently Amended) The method of claim 28, further comprising the
2 step of:
3 if when said ~~local~~ origin address defined by said ~~first-internal~~ destination screen is
4 ~~a more specific origin address~~ contains a greater number of characters than said origin
5 address defined by said received route ~~information~~ advertisement, keeping said ~~local~~
6 origin address defined by said ~~first-internal~~ destination screen and discarding said origin
7 address defined by said received route ~~information~~ advertisement.

1 30. (Currently Amended) The method of claim 28, further comprising the
2 step of:

3 if when said ~~local~~ origin address defined by said ~~first internal~~ destination screen is
4 ~~a less specific origin address~~ contains a lesser number of characters than said origin
5 address defined by said received route ~~information~~ advertisement, storing said origin
6 address defined by said received route ~~information~~ advertisement for future comparison
7 to a ~~local~~ policy.

1 31. (Currently Amended) The method of claim 20, further comprising the
2 step of:

3 reading a received carrier attribute provided by said received route ~~information~~
4 advertisement, wherein said received carrier attribute describes a source of said received
5 route ~~information~~ advertisement, prior to comparing said received route ~~information~~
6 advertisement to said ~~local~~ policy.

1 32. (Currently Amended) The method of claim 31, further comprising the
2 step of:

3 if when a received carrier name, defined by said received carrier attribute, does
4 not match a local carrier name, discarding said received route ~~information~~ advertisement
5 prior to comparing said received route ~~information~~ advertisement to said ~~local~~ policy.

1 33. (Currently Amended) The method of claim 31, further comprising the
2 step of:

3 if when a received carrier days of availability, defined by said received carrier
4 attribute, does not match a ~~local~~ carrier days of availability, discarding said received
5 route ~~information~~ advertisement prior to comparing said received route ~~information~~
6 advertisement to said ~~local~~ policy.

1 34. (Currently Amended) The method of claim 31, further comprising the
2 step of:

3 if when a received carrier hours of availability, defined by said received carrier
4 attribute, does not match a ~~local~~ carrier hours of availability, discarding said received
5 route ~~information~~ advertisement prior to comparing said received route ~~information~~
6 advertisement to said ~~local~~ policy.

1 35. (Currently Amended) The method of claim 31, further comprising the
2 step of:

3 if when a received carrier time of availability, defined by said received carrier
4 attribute, does not match a ~~local~~ carrier time of availability, discarding said received
5 route ~~information~~ advertisement prior to comparing said received route ~~information~~
6 advertisement to said ~~local~~ policy.

1 36. (Currently Amended) The method of claim 31, further comprising the
2 step of:

3 if when a received carrier cost, defined by said received carrier attribute, does not
4 match a ~~local~~ carrier cost, discarding said received route ~~information~~ advertisement prior
5 to comparing said received route ~~information~~ advertisement to said ~~local~~ policy.

1 37. (Currently Amended) A system for screening real-time transport protocol
2 ~~routes~~ route advertisements prior to comparing said routes to a ~~local~~ policy, comprising:
3 means for receiving a ~~route information advertisement~~ describing a route ~~from a~~
4 ~~first endpoint to a second endpoint~~ that traverses one or more Internet telephony
5 administrative domains;
6 means for ~~determining if said route information is received from an external~~
7 ~~source or an internal source~~ identifying a managing entity that controls an originating
8 device and a managing entity that controls a destination device defined by the route
9 advertisement, which is logically connected to said means for receiving;
10 means for performing a ~~first internal~~ destination screen of said route ~~information~~
11 advertisement, which is configured to compare a destination address defined by received
12 route ~~information advertisement~~ to a ~~local~~ destination address defined by said ~~first~~
13 ~~internal~~ destination screen, which is logically connected to said means for receiving and
14 said means for ~~determining~~ identifying; and
15 means for performing a ~~second internal~~ an origin screen of said route ~~information~~
16 advertisement, which is configured to compare an origin address defined by said received
17 route ~~information advertisement~~ to a ~~local~~ an origin address defined by said ~~second~~
18 ~~internal~~ origin screen, which is logically connected to said means for receiving, said
19 means for ~~determining~~ identifying, and said means for performing.

1 38. (Currently Amended) The system of claim 37, further comprising a
2 means for discarding said route ~~information advertisement~~ if when said destination
3 address defined by said received route ~~information advertisement~~ does not match said
4 ~~local~~ destination address defined by said ~~first internal~~ destination screen.

1 39. (Currently Amended) The system of claim 37, further comprising a
2 means for determining ~~whether~~ which of said destination address defined by said
3 received route ~~information advertisement~~ ~~or and~~ said ~~local~~ destination address defined by
4 said ~~first internal~~ destination screen ~~is a more specific destination address if~~ contains a
5 greater number of characters when a portion of said destination address defined by said
6 received route ~~information advertisement~~ matches a portion of said ~~local~~ destination
7 address defined by said ~~first internal~~ destination screen.

1 40. (Currently Amended) The system of claim 39, further comprising a
2 means for keeping said ~~local~~ destination address defined by said ~~first internal~~ destination
3 screen and discarding said destination address defined by said received route ~~information~~
4 advertisement if when said ~~local~~ destination address defined by said ~~first internal~~
5 destination screen ~~is a more specific destination address~~ contains a greater number of
6 characters than said destination address defined by said received route ~~information~~
7 advertisement.

1 41. (Currently Amended) The system of claim 39, further comprising a
2 means for storing said destination address defined by said received route ~~information~~
3 advertisement for future comparison to a ~~local~~ policy if when said ~~local~~ destination
4 address defined by said ~~first internal~~ destination screen ~~is a less specific destination~~
5 address contains a lesser number of characters than said destination address defined by
6 said received route ~~information~~ advertisement.

1 42. (Currently Amended) The system of claim 37, wherein the format of said
2 destination address conforms to at least one of E.164 style addresses, Internet style
3 addresses, SIP session initiation protocol telephone addresses, ~~or~~ and non-SIP session
4 initiation protocol telephone addresses.

1 43. (Currently Amended) The system of claim 37, further comprising a
2 means for storing said received route ~~information~~ advertisement for future comparison to
3 a ~~local~~ policy if when said received route ~~information~~ advertisement does not have said
4 origin address.

1 44. (Currently Amended) The system of claim 37, further comprising a
2 means for discarding said received route ~~information~~ advertisement if when said origin
3 address defined by said received route ~~information~~ advertisement does not match said
4 ~~local~~ origin address defined by said ~~first internal~~ destination screen.

1 45. (Currently Amended) The system of claim 37, further comprising a
2 means for determining ~~whether~~ which of said origin address defined by said received
3 route ~~information advertisement~~ or and said ~~local~~ origin address defined by said ~~first~~
4 ~~internal destination~~ screen ~~is a more specific origin address if~~ contains a greater number
5 of characters when a portion of said origin address defined by said received route
6 ~~information advertisement~~ matches a portion of said ~~local~~ origin address defined by said
7 ~~first internal destination~~ screen.

1 46. (Currently Amended) The system of claim 45, further comprising a
2 means for keeping said ~~local~~ origin address defined by said ~~first internal destination~~
3 screen and discarding said origin address defined by said received route ~~information~~
4 ~~advertisement~~ if when said ~~local~~ origin address defined by said ~~first internal destination~~
5 screen ~~is a more specific origin address~~ contains a greater number of characters than said
6 origin address defined by said received route ~~information advertisement~~.

1 47. (Currently Amended) The system of claim 45, further comprising a
2 means for storing said origin address defined by said received route ~~information~~
3 ~~advertisement~~ for future comparison to a ~~local~~ policy if when said ~~local~~ origin address
4 defined by said ~~first internal destination~~ screen ~~is a less specific origin address~~ contains a
5 lesser number of characters than said origin address defined by said received route
6 ~~information advertisement~~.

1 48. (Currently Amended) The system of claim 37, further comprising a
2 means for reading a received carrier attribute provided by said received route ~~information~~
3 ~~advertisement~~, wherein said received carrier attribute describes a source of said received
4 route ~~information advertisement~~, prior to comparing said received route ~~information~~
5 ~~advertisement~~ to said ~~local~~ policy.

1 49. (Currently Amended) The system of claim 48, further comprising a first
2 means for discarding said received route ~~information advertisement~~ prior to comparing
3 said received route ~~information advertisement~~ to said ~~local~~ policy if when a received
4 carrier name, defined by said received carrier attribute, does not match a ~~local~~ carrier
5 name.

1 50. (Currently Amended) The system of claim 48, further comprising a
2 second means for discarding said received route ~~information~~ advertisement prior to
3 comparing said received route ~~information~~ advertisement to said ~~local~~ policy if when a
4 received carrier days of availability, defined by said received carrier attribute, does not
5 match a ~~local~~ carrier days of availability.

1 51. (Currently Amended) The system of claim 48, further comprising a third
2 means for discarding said received route ~~information~~ advertisement prior to comparing
3 said received route ~~information~~ advertisement to said ~~local~~ policy if when a received
4 carrier hours of availability, defined by said received carrier attribute, does not match a
5 ~~local~~ carrier hours of availability.

1 52. (Currently Amended) The system of claim 48, further comprising a fourth
2 means for discarding said received route ~~information~~ advertisement prior to comparing
3 said received route ~~information~~ advertisement to said ~~local~~ policy if when a received
4 carrier time of availability, defined by said received carrier attribute, does not match a
5 ~~local~~ carrier time of availability.

1 53. (Currently Amended) The system of claim 48, further comprising a fifth
2 means for discarding said received route ~~information~~ advertisement prior to comparing
3 said received route ~~information~~ advertisement to said ~~local~~ policy if when a received
4 carrier cost, defined by said received carrier attribute, does not match a ~~local~~ carrier cost.